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STATE OF CALIFORNIA
PETE WILSON, *Governor*

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION
2101 WEBSTER STREET, SUITE 500
OAKLAND, CA 94612

TEL: (510) 286-1255
FAX: (510) 286-1380

May 15, 1994
File No. 1114.17(SIM)

Philip J. Armstrong, Project Officer
U.S. Environmental Protection Agency, Region IX
Hazardous Waste Division (H-8-1)
75 Hawthorne Street
San Francisco, CA 94105

Dear Mr. Armstrong:

**Subject:** **Quarterly Progress Report for the South Bay MSCA**
**Fiscal Year 94 for the Quarter 1 January - 31 March 1994**

Attached are two copies of the Quarterly Progress Report. The report covers the tasks in the approved Workplan amendments within the grant amendment award of July 30, 1993. I don't believe there are any significant changes from the project status report as discussed with you, Dave Jones, and Andy Lincoff in January.

As before, I would appreciate any constructive comments you may have to assure compliance of and/or improve the usefulness of the report. Please call me (510/286-0304) if you have any questions.

Sincerely,

Steve Morse
MSCA Program Manager

Attachment: Quarterly Progress Report (2)
cc: SRR, LPK, LKB, BHW, SAH, GW
SWRCB/DAS(Budgets)
T. Kremer, EPA (H-6-4)

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SDMS #2154561

# QUARTERLY STATUS REPORT

## January - March 1994

# SOUTH BAY MULTI-SITE COOPERATIVE AGREEMENT (MSCA)

EPA GRANT NUMBER V-009403-02-A(10)
(as of July 30, 1993)

State Water Resources Control Board

California Regional Water Quality Control Board
San Francisco Bay Region
South Bay Toxics Cleanup Division

May 15, 1994

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# QUARTERLY PROGRESS REPORT
# SOUTH BAY MULTI-SITE COOPERATIVE AGREEMENT
# January - March 1994

The goals of the MSCA for this phase are:

*To accelerate cleanup at Superfund sites in the South Bay.*

*To augment the RWQCB's existing programs to ensure that the EPA's requirements, as defined in the National Contingency Plan (NCP), are met for those NPL sites assigned to the RWQCB as lead agency.*

* * *

The South Bay Multi-Site Cooperative Agreement (MSCA), Phase II, was awarded and accepted by the State Water Resources Control Board effective April 13, 1988. This progress report for this phase is submitted to satisfy the Special Conditions. This report covers the October - December 1993 quarter as amended in subsequent grant offers, the latest being awarded July 30, 1993, to extend the agreement to December 31, 1993, with partial awards of June 1992 and July 1993. An additional extension has been awarded to September 30, 1994 awaiting approval of the 1994-1996 Workplan.

The MSCA Grant provides funding for activities of the state (i.e. State Board and Regional Board) responsible for coordinating and enforcing groundwater cleanup programs at Federal Superfund sites in the South Bay. The estimated expenditures, staff years, and accomplishments are compared to the work plans of January 28, 1988, March 9, 1989, February 13, 1990, January 1991, and January 22, 1992 (with revisions and reductions per Regional Board workplan amendments of May 3, 1993).



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# QUARTERLY PROGRESS REPORT
# SOUTH BAY MULTI-SITE COOPERATIVE AGREEMENT
# January - March 1994

## II - SPECIAL CONDITIONS

*Besides the tasks in the MSCA's Workplan, some of the grant's Special Conditions require the State Water Resources Control Board (SWRCB) and the Regional Water Quality Control Board (RWQCB) to perform certain activities. The Revised Special Conditions responded to here are part of the grant offer of June 5, 1992.*

An amended Workplan for 1992-1993 for $2.35 million was submitted to and approved by the EPA with a partial award June 5, 1992. The most recent award, dated July 30, 1993, was accepted by the State.

Under the terms of the Special Conditions, the Board requested that EPA redirect funds between several of the sites to cover unanticipated costs not budgeted. EPA has agreed to the redirection and included the redirection in the July 1993 grant award. Because the award was later than anticipated, and additional agreed upon work was also needed (and not needed) at some sites, redirection will be needed again.

Due to a change in State accounting to allocate all non-site specific charges monthly (to the appropriate NPL sites in proportion to staff activity), the grant workplan non-site specific tasks (A, and B) and their accounting records can be misinterpreted. The budget and expenditures shown for this quarterly review are the *total for all sites.* EPA continues to finalize the few remaining MSCA sites for initial demands for cost-recovery started in early March 1992. EPA has to date received significant and substantial payments. It is expected that requests for additional annual cost-recovery payments will be made this year.

The State is working this calendar year to move all (or almost all) of the cost-recovery programs from the Superfund sites within the State system. Details are yet to be worked out; additional coordination with EPA will be necessary to finalize the change-over.



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# III - SUMMARY AND STATUS OF MSCA TASKS AND BUDGETS

*This Section provides a summary as well as details where necessary on the quarterly progress and status of the MSCA tasks in the Workplan of January 1992 and as approved via the July 1993 grant award.*

To accelerate the cleanup at the South Bay Federal Superfund sites the EPA assigned the responsibility along with the necessary augmented funding to the State and Regional Boards to accomplish oversight and regulation of the South Bay Superfund sites under Federal and State law and regulations as well as EPA Guidelines.

In all instances the acute toxics threat and risk at the MSCA sites is now either under interim control (awaiting long-term solutions) due to aggressive earlier Board regulation and requirements for initial and interim investigations, removals, and remediation or the Board and EPA have adopted and the Responsible Parties are (or have) constructed and/or implemented the long-term remediation project to control chronic threats. The Regional Board's efforts are now focused primarily on the remaining sites requiring completion of any necessary investigations and development of cleanup alternatives (i.e. the RI/FS process) and a proposed cleanup plan (the RAP) for public review and comment (See Table, page III-5). After public review and comment, the Board will adopt the RAP in a Site Cleanup Order (i.e. CAO) as modified by public comment, staff recommendations and Board guidance. If EPA approves of the Board's actions and selects the same remedy (RAP), they will administratively adopt a Record of Decision (ROD). Close coordination with EPA is maintained during the process; there is no reason to believe that EPA would not choose the same remedy as the Board.

**Significant Events and Activities During the Grant Quarter:**

**South Bay MSCA Superfund Site Cleanup Decisions (RI/FS/RAP):** All the South Bay Superfund sites have accomplished significant amounts of work to meet Superfund final cleanup decision requirements. The tasks remaining are necessary to meet Federal Superfund (all of which the State requires as well) requirements to determine the best alternative considering protection of public health and the environment as well as the maintenance (i.e. high quality groundwater) and protection of the resource (i.e. water conservation and reclamation).

**Official Board Actions during Quarter:**
*January:* Nat Semi NPDES reissued (RO reject); MSCA Status Report to Board
*February:* Rhone- Poulenc init hearing re: ESD
*March:* Rhone-Poulenc adopt ESD; BBS status report; IBM & Fairchild's 5-year status reports

**Other MSCA Events/Activities during the Quarter:**

**Quarterly Enforcement Meeting:** EPA and the Board project staff meet and/or discuss their site's cleanup progress frequently during the quarter. A joint meeting was held between EPA and RWQCB management/staff in January to update EPA and RWQCB staff and determine program and site actions. No joint quarterly meeting was held between Cal/EPA DTSC, EPA, and the Board covering the enforcement status of the South Bay toxics cleanup sites -- either Superfund or non-Superfund. This joint meeting was previously formalized in the updated South Bay Enforcement Agreement. At this time the primary area where the three agencies interface is the Stanford Industrial Park area in Palo Alto, Rhône-Poulenc in East Palo Alto where the DTSC was previously the lead agency, and at United Heckathorn and Liquid Gold sites in Richmond where the Board is a support agency to EPA and DTSC.

**South Bay Groundwater Task Force:** Due to low past public attendance and interest, future meetings have been canceled unless a specific topic or site arises that warrants reconstitution of the task force. Contact with the usual participants of the Task Force is maintained through individual site-specific contacts.

**Board staffing:** During the quarter, the Board's staffing in support of the MSCA was satisfactory. Support of an Information System Technician (IST) is provided on an "as needed" basis from another division within the RWQCB. Because of an extended absence of the IST for most of 1992, the production of the Site Management System (SMS) was suspended but was finally updated in May 1994. In concert with an effort to reduce the amount of resources necessary to produce the Site Management System, the transfer of the Information System Technician did not significantly affect the Site Management System



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(the published SMS has not been updated since early 1992). The SMS will be updated through the use of the annual update (first is May 1994) and followups via the RWQCB's computer Bulletin Board System (now on-line since March 1993).

**1992-1993 MSCA Workplan:** The Regional Board submitted the amended 1992-1993 MSCA Workplan in January 1992; the State Board accepted and applied for the amended grant in March 1992; and the EPA awarded the amended Grant in June 1992. The Workplan is effective through September 30, 1993. Revision to the current workplan (reduced budget) and expiration (increased time to December 31, 1993) have been agreed to by EPA (July 30, 1993) and accepted by the SWRCB as of mid August.

Awaiting completion of the 1994-1996 Workplan and further funding from EPA, and at EPA's request to reduce future funding, the Board applied for a no-cost time extension to September 30, 1994. EPA approved the time extension December 22, 1993.

**1994-1996 MSCA Workplan:** Regional Board staff forwarded the 1994-1996 Workplan to the State Water Board for submittal to EPA on December 21, 1993. The State Water Board expects to make an official application for the 1994-1996 grant this quarter.

As a result of a meeting with EPA program management in late January, further clarifications and/or modifications of the workplan may be necessary but should not hold up the application and award.

**EPA Cost-Recovery:** In early March 1992, EPA began the process of cost-recovery for the MSCA sites. The demands are for combined costs of the Board (through June 30, 1991) and EPA (through July 31, 1991). By the end of March 1992, several RPs had already paid, and most of the remaining billed sites have paid either in full or partially. A cost-recovery suit has been filed by EPA against Intel, Kim Camp III, CTS Printex, and ADN. Completion of the initial cost-recovery cycle is expected soon and the beginning of a new annual cycle is expected to resume this year. SWRCB is preparing site accounting records as necessary.

**Status and Funding of MSCA Tasks:**

The overall status of the Grant tasks is satisfactory, especially with the new grant supplemental award received July 30, 1993. Even after the July 30 award, some redirection of grant funds will still be needed between sites due to work necessary (and not necessary) that was not anticipated in the 1993 submittal for an amended award. The overall expenditures do not exceed the total MSCA obligations. The status of the individual tasks (and site budgets) varies (see the individual tasks following for detailed descriptions):

**A. Program Management:** Normal activities continue with an emphasis on assuring the final adoption of RAPs at several sites -- Rhône-Poulenc (wetlands), Hewlett-Packard 640 & 1501 in late FFY 94, National Semi's OU#2, etc. -- and to assure that time schedules would be met. RD/RA and O&M continues at other sites.. A supplement to the 1994-96 Workplan is being drafted as requested by EPA staff but has yet to be submitted.

**B. Site Management System**: The last published quarterly report for October - December 1991 was distributed late January 1992. With the leave of absence of the Information System Technician for half of 1992 and transfer to another Board Division upon return, the Regional Board's latest approved workplan has rescoped the SMS to be less IST intensive and still provide greater public access (via limited paper copies and an on-line electronic BBS). The SMS was officially updated for distribution in late May 1994 with an "as of" date of early 1994. It now appears that paper copies will still be necessary, at least of a limited nature on an annual basis at least. Interim updates will be maintained on the BBS awaiting the annual update.

**D. Community Involvement:** Up-to-date and continuing; see specific item. A significant change took place on this task in October 1993 as the IPA working on Community Involvement returned to EPA and was not replaced since not enough work remains to justify a dedicated full-time staff person. Community Involvement tasks will now be accomplished by the respective project manager with some tasks being performed by a designated staff person to coordinate overall activities where necessary. Prior training, extensive planning, and use of PRP staff and resources appear to have made



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this a smooth transition. The impact of this change affects primarily those sites still awaiting final RAP/RODs (e.g. National OU#2, both Hewlett-Packard sites, and Rhône-Poulenc Wetlands) and will be monitored closely by the Program Manager. Because of the staffing change, the Community Involvement task work is being incorporated into the other tasks, primarily Task A. Program Management and E.2, NPL Oversight, and will not be reported separately in this or future quarterly reports unless a significant task or activity is being reported. Overall activities on the sites is reported in Task E.2. and will include Community Involvement activities.

We continue to provide copies to the public of the RWQCB/EPA brochure on "Status of Superfund Groundwater Cleanup in the South Bay" that was published and distributed in November 1993.

**E2. NPL Site Oversight:** Currently, we are able to keep up with the staff work load although some schedules have slipped and are still slipping [e.g. Rhône-Poulenc/Sandoz (Wetlands OU), National Semiconductor OU#2] due to the complexity of the sites (wetlands and multiple parties respectively). The typical scenario finds that as the cleanup tasks in the RI/FS workplan become solidified and finalized that details formerly unknown or unresolved take on an importance not previously appreciated (e.g. HP sites). Some unforeseen slippages in the current MSCA schedules have occurred and probably will occur again (e.g. agency agreement and oversight for the wetlands cleanup and remediation at Rhône-Poulenc, etc.). State staff will do everything in their power to minimize slippage. Additionally, the utilization of Operable Units is being used (e.g. NSC) where a firm decision can be made on a given unit *and* a final decision on the remainder of the site can not be made for a considerably longer time (e.g. one year or longer). A review of the site schedule (page III-5) indicates actual and probable slippage from the schedules updated for this quarter and as changed since the last quarter's report. Details on the slippages are covered later by site, but generally they can still be categorized into four categories:

1. Upon review of the PRP submitted RI/FS and proposed RAP, the report and recommendations are inadequate and require significant administrative changes to meet EPA guidance documents; these comments come from both RWQCB and EPA staff [e.g. National Semiconductor/Advanced Micro Devices (Arques)].

2. Finishing up the RI/FS and RAP, "holes" are found in the RI/FS and RAP that must be covered with further field work and/or investigations (e.g. Rhône-Poulenc's risk assessment and both HP sites).

3. New information comes to light (usually in the field, "one last well...") that requires radical changes to the RI/FS and RAP with their ensuing delays (e.g. the HP Palo Alto sites at earlier stages).

4. Agency and public comment require significant amendment of the FS/RAP (e.g. Rhône-Poulenc).

An additional factor that may delay RODs, but probably not the state RAPs is activity by the State Department of Health Services in the preparation of Health Assessments (HA) under contract for the Agency for Toxics Substances and Disease Registry (ATSDR) as required by CERCLA/ SARA. To date, it is still not clear what the significant differences are between ATSDR/DHS' Health Assessments and the Board's BPHE and Risk Assessments or how they will be involved in RAP/ROD decision-making since the HA will not normally be available until after the Board adopts a RAP. To date, no ROD has been knowingly held up because of ATSDR's HA.

Mitigating these potential delays is the fact that the Board has required interim remediation, the definition work has been mostly completed (exception, but nearing completion -- HP's 640 and 1501 Page Mill sites in Palo Alto; and NSC OU#2), and the Board can implement enforcement quickly where needed and necessary. Staff is aware of slippages and is working to assure completion to the amended schedule as well as preventing further slippage. At this time no enforcement is planned.

Internal over expenditures by site are primarily caused by several administrative problems:

- Within the tasks, CALSTARS reports utilized currently do not provide an appropriate breakout between indirect costs and contract costs.



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- Within the task by site, over expenditures are caused by the implementation of specific site budgets where none existed before and unanticipated work or difficulty of work that could not be foreseen by the original budget. With the new award of July 1993, redirection corrected this problem (by task) as it stood then, but additional, unanticipated site work has caused some overexpenditures on some of the sites. For tracking purposes, the overall *total* grant budget must be utilized.

- The grant award was late due to delays in the submission and award; earlier over expenditures were covered by the July 1990 and May 1991 award budgets and were partially reconciled with the June 1992 and July 1993 grant award budget redirections. No additional overall funding is requested at this time (excepting the proposed grant award to June 30, 1996), but additional redirections were made with the remaining partial award and will be needed again. A new workplan and budget was requested in December 1993. It is expected that redirections and a "clean-up" and reconciliation adjustment of the grant will be necessary in late CY 1994.

- To facilitate cost-recovery, all non-site specific work (Tasks A, B, etc.) is allocated monthly to the MSCA sites in proportion to the site activity for the month. Again, the real test of budget and spending at this time is to compare the *total* "bottom line".

Under expenditures are usually caused by changes in work, over estimation of work (usually anticipated problems do not appear), delays in site cleanup (staff work not able to be performed due to project delays and awaiting reports), and changing requirements (reducing significant assistance at the MEW sites).

The table on page III-6 is a summary of the grant budget status of all the sites and shows the approved budget and total accumulated expenditures for staffing, expenses and contracts during the quarter and the life of the Cooperative Agreement (Phase II) since initial award April 13, 1988, including the July 90, May 91, June 92 and July 93 awards. The Regional Board Program Manager may request a redirection between sites to cover overages in late 1994. No overall increase in total budget (other than approval of 1994-96 workplan and budget) is foreseen due to these charges at this time (in fact a decrease in budget was proposed for FFY 93 and in future forecasted years).

**Forecasted MSCA Tasks and Activities Next 3 - 6 Months:**

--Significant activity continues, as shown in the MSCA Schedule (see page III-5), to complete RI/FS (HP 640 and 1501), developing NSC's OU#2 RI/FS, and finalizing Rhône-Poulenc's Wetlands RI/FS, as well as two Public Meetings near the HP sites to receive comment on various phases of proposed cleanup projects.

--Maintain time schedules in Community Relations Plans in coordination with overall schedule, especially Hewlett-Packard sites.

--Amend and extend, if necessary, MSCA contracts and Interagency Agreement with DHS (Data Validation).



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# SOUTH BAY MSCA SCHEDULE

(updated 5/15/94 by RWQCB; # indicates change since last report)

| Site | RI/FS and RAP Completed and Available for Public Comment | | Final RAP/ROD Adopted | |
|---|---|---|---|---|
| | mo/yr | FFY/Q | mo/yr | FFY/Q |
| *1. Advanced Micro Devices - Arques* | *RI/FS adopted; ROD signed; RA and O&M underway* | | | |
| *2. Advanced Micro Devices - Bldg 901/902* | *RI/FS adopted; ROD signed; RA and O&M underway* | | | |
| *3. Advanced Micro Devices 915* | *RI/FS adopted; ROD signed; RA and O&M underway* | | | |
| *4. Applied Materials* | *RI/FS, RAP adopted; ROD signed/amended; RA and O&M underway* | | | |
| *5. CTS Printex* | *RI/FS and RAP adopted; ROD signed; RA and O&M underway* | | | |
| *6. Fairchild, San Jose* | *RI/FS and RAP adopted; ROD signed; RA and O&M underway* | | | |
| 7. Hewlett Packard, 1501 Page Mill | 6/94 | 3/94 | 8/94# | 4/94 |
| 8. Hewlett Packard, 640 Page Mill | 7/94# | 4/94# | 9/94 | 4/94 |
| *9. Hexcel* | *RAP/ROD Sep 93, but now no longer part of the MSCA (NPL delisting)* | | | |
| *10. Intel Magnetics / Micro Storage* | *RI/FS adopted; ROD signed; RA and O&M underway* | | | |
| *11. Intel Santa Clara III* | *RI/FS & RAP adopted; ROD signed; RA and O&M underway* | | | |
| *12. International Business Machines* | *RI/FS and RAP adopted; ROD signed; RA and O&M underway* | | | |
| *13. Intersil / Siemens* | *RI/FS and RAP adopted; ROD signed; RA and O&M underway* | | | |
| 14. National Semiconductor | | | | |
| *Operable Unit 1* | *RI/FS adopted; ROD signed; RA and O&M underway* | | | |
| Operable Unit 2 | TBD(mid 95) | TBD(mid 95) | TBD(late 95) | TBD(late 95) |
| 15. Rhône Poulenc/Sandoz Crop Prot Corp | | | | |
| *Uplands Operable Unit* (and Annex) | *RI/FS adopted; ROD signed; RA completed 11/92* (Annex ESD 3/94) | | | |
| Wetlands Operable Unit | TBD(7/95?) | TBD (95/3?) | TBD (9/95?) | TBD (95/4?) |
| *16. Signetics* | *RI/FS adopted; ROD signed; RA and O&M underway* | | | |
| *17. Solvent Services* | *RI/FS & RAP adopted; ROD signed; RA and O&M underway* | | | |
| *18. Spectra Physics* | *RI/FS adopted; ROD signed; RA and O&M underway* | | | |
| *19. Synertek 1* | *RI/FS & RAP adopted; ROD signed; RA and O&M underway* | | | |
| *20. Teledyne* | *RI/FS adopted; ROD signed; RA and O&M underway* | | | |
| *21. TRW/FEI Microwave* | *RI/FS adopted; ROD signed; RA and O&M underway* | | | |
| *22. Van Waters & Rogers* | *RI/FS and RAP adopted; ROD signed; RA and O&M underway* | | | |

TBD=To Be Determined

Notes: Federal lead sites, for which RWQCB receives funding under MSCA for its support activities, have identical milestones, but are not included here since the RWQCB is not directly responsible for meeting those time schedules. The State-required RAPs are final when the NBAR is completed; does not affect the Federal Superfund process, only state required Non-Binding Allocation of Responsibility (i.e. NBAR).



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# MSCA EXPENDITURE/DRAWDOWN DATA
## MULTI-SITE THROUGH 03/31/94

| MSCA PHASE II PROJECT # | ACCOUNT NUMBER | AMOUNT AUTHORIZED | BAL OF AWARD 09-V-005 | AWARD 09-V-009 07/09/93 | TOTAL AUTHORIZED | ALL FISCAL YEAR DATA CUM EXP | CUM DRAWS | DIFF | NEXT DRAW | UNABLE TO DRAW |
|---|---|---|---|---|---|---|---|---|---|---|
| MSCA02-00 | | 0.00 | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MSCA02-01 | | 0.00 | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MSCA02-02 | K382/KN82/KP82 | 157,528.00 | 12,945.00 | 28,000.00 | 198,473.00 | 149,713.70 | 149,390.05 | 323.65 | 323.65 | 0.00 |
| MSCA02-03 | K3H1/KNH1/KPH1 | 130,184.00 | 12,945.00 | 34,004.00 | 177,133.00 | 102,487.10 | 102,298.64 | 188.46 | 188.46 | 0.00 |
| MSCA02-04 | KP83 | 245,248.00 | | 58,743.00 | 303,991.00 | 330,175.79 | 303,991.00 | 26,184.79 | 0.00 | 26,184.79 |
| MSCA02-05 | K384 | 37,378.00 | 11,030.00 | | 48,408.00 | 7,721.47 | 7,721.47 | 0.00 | 0.00 | 0.00 |
| MSCA02-06 | KP82 | 46,543.00 | | 22,760.00 | 69,303.00 | 77,255.34 | 69,303.00 | 7,952.34 | 0.00 | 7,952.34 |
| MSCA02-07 | KN85/KP85 | 271,777.00 | | 165,321.00 | 437,098.00 | 279,052.56 | 267,225.24 | 11,827.32 | 11,827.32 | 0.00 |
| MSCA02-08 | KNH9/KPH9 | 407,106.00 | | 152,700.00 | 559,806.00 | 412,494.84 | 407,106.00 | 5,388.84 | 5,388.84 | 0.00 |
| MSCA02-09 | K340/KN40/KP40 | 71,058.00 | 11,030.00 | 27,559.00 | 109,647.00 | 70,330.00 | 67,900.72 | 2,429.28 | 2,429.28 | 0.00 |
| MSCA02-10 | K386 | 38,408.00 | | | 38,408.00 | 6,003.90 | 6,003.90 | 0.00 | 0.00 | 0.00 |
| MSCA02-11 | KP88 | 118,452.00 | 11,030.00 | 18,150.00 | 147,632.00 | 142,846.30 | 139,840.54 | 3,005.76 | 3,005.76 | 0.00 |
| MSCA02-12 | KN87/KP87 | 170,899.00 | 11,030.00 | 18,150.00 | 200,079.00 | 193,275.09 | 192,771.12 | 503.97 | 503.97 | 0.00 |
| MSCA02-13/20 | KNJ2/KPJ2 | 118,345.50 | 11,030.00 | 30,164.00 | 159,539.50 | 122,660.04 | 121,772.30 | 887.74 | 887.74 | 0.00 |
| MSCA02-14 | KP89 | 47,178.00 | | 28,371.00 | 75,549.00 | 61,340.32 | 61,264.29 | 76.03 | 76.03 | 0.00 |
| MSCA02-15 | K3C7 | 4,620.00 | | | 4,620.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MSCA02-16 | KP90 | 217,117.00 | | 49,803.00 | 266,920.00 | 248,297.74 | 246,331.75 | 1,965.99 | 1,965.99 | 0.00 |
| MSCA02-17 | KP91 | 300,623.00 | | 33,085.00 | 333,708.00 | 376,684.76 | 333,708.00 | 42,976.76 | 0.00 | 42,976.76 |
| MSCA02-18 | K3H5/KNH5/KPH5 | 151,844.00 | 10,063.00 | 17,889.00 | 179,796.00 | 155,318.15 | 154,075.76 | 1,242.39 | 1,242.39 | 0.00 |
| MSCA02-19 | K393 | 28,408.00 | | | 28,408.00 | 5,880.53 | 5,880.53 | 0.00 | 0.00 | 0.00 |
| MSCA02-20 | K3J2 | 118,345.50 | | | 118,345.50 | 101,286.02 | 100,858.51 | 427.51 | 427.51 | 0.00 |
| MSCA02-21 | KN94/KP94 | 125,380.00 | 12,945.00 | 31,904.00 | 170,229.00 | 131,763.20 | 130,842.58 | 920.62 | 920.62 | 0.00 |
| MSCA02-22 | K3K1/KNK1/KPK1 | 162,354.00 | 14,530.00 | 31,958.00 | 208,842.00 | 156,233.10 | 155,587.03 | 646.07 | 646.07 | 0.00 |
| MSCA02-23 | K3K3/KNK3/KPK3 | 127,045.00 | 11,030.00 | 18,150.00 | 156,225.00 | 120,686.58 | 120,505.93 | 180.65 | 180.65 | 0.00 |
| MSCA02-24 | K3K4/KNK4/KPK4 | 165,091.00 | 12,945.00 | 28,103.00 | 206,139.00 | 138,395.67 | 138,187.08 | 208.59 | 208.59 | 0.00 |
| MSCA02-25 | K395/KN95/KP95 | 157,952.00 | 14,530.00 | 31,958.00 | 204,440.00 | 159,783.53 | 157,952.00 | 1,831.53 | 1,831.53 | 0.00 |
| MSCA02-26 | | 0.00 | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MSCA02-27 | K396/KN96/KP96 | 206,905.00 | 10,063.00 | 21,984.00 | 238,952.00 | 188,998.68 | 187,501.52 | 1,497.16 | 1,497.16 | 0.00 |
| MSCA02-28 | K397KN97/KP97 | 38,408.00 | 8,770.00 | 16,371.00 | 63,549.00 | 36,702.69 | 36,643.95 | 58.74 | 58.74 | 0.00 |
| MSCA02-29 | KN98/KP98 | 431,680.00 | | 169,790.00 | 601,470.00 | 453,072.03 | 431,680.00 | 21,392.03 | 21,392.03 | 0.00 |
| MSCA02-31 | K3F6KNF6/KPF6 | 38,591.00 | 5,305.00 | 9,168.00 | 53,064.00 | 11,606.10 | 11,560.72 | 45.38 | 45.38 | 0.00 |
| MSCA02-32 | K3J9/KNJ9/KPJ9 | 164,154.00 | 11,030.00 | 18,150.00 | 193,334.00 | 139,191.96 | 139,061.09 | 130.87 | 130.87 | 0.00 |
| MSCA02-33 | KNJ1/KPJ1 | 277,412.00 | | 116,753.00 | 394,165.00 | 268,742.58 | 268,520.18 | 222.40 | 222.40 | 0.00 |
| MSCA02-34 | KPR3 | 27,997.00 | | 15,405.00 | 43,402.00 | 36,767.65 | 36,626.50 | 141.15 | 141.15 | 0.00 |
| MSCA02-35 | KP47 | 8,078.00 | | 33,745.00 | 41,823.00 | 34,421.67 | 34,268.60 | 153.07 | 153.07 | 0.00 |
| MSCA02-36 | KNM6/KPM6 | | 206,989.00 | 49,369.00 | 256,358.00 | 7,062.63 | 6,924.67 | 137.96 | 137.96 | 0.00 |
| | | 4,612,109.00 | 399,240.00 | 1,277,507.00 | 6,288,856.00 | 4,726,251.72 | 4,593,304.67 | 132,947.05 | 55,833.16 | 77,113.89 |
| | | | | SITE 64 | 1,213,951.00 | | | | | |
| | | | | | 7,502,807.00 | | | | | |
| | | | | IPA | 67,358.00 | | | | | |
| | | | | TOTAL | 7,570,165.00 | | | | | |



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# PROGRAM ELEMENT A: PROGRAM MANAGEMENT

The RWQCB is responsible for continued coordination and implementation of the South Bay MSCA Program. These activities include, but are not limited to, the following:

- *Maintaining the direction, scope, and quality of the South Bay Program*
- *Planning and oversight of the overall program schedule and budget*
- *Interagency coordination*
- *Staffing requirements and recruitment*
- *Supervision of Community Involvement*
- *Program analysis and development*
- *Supervision of procurement*

## Product

The products for Task A are the successful completion of all the tasks identified and funded under this phase of the South Bay MSCA..

Additionally, most site-file cost-recovery work will be initially charged against this task with allocation among the sites made later depending upon the actual work necessary to establish and maintain individual site-specific cost files.

Within the overall program management, the most significant program management activities during this period involved the coordination / management necessary to meet MSCA time schedules, especially those for Rhône-Poulenc and Hewlett-Packard(s); preparation of additional workplan data for EPA staff and budget restrictions; updating the SMS; and day to day supervision and management of ongoing MSCA tasks at ROD adopted sites (i.e. ongoing RD/RA and O&M).

## State Budgeted Activities

Task A involves supervising and implementing specific tasks (i.e. contracts) included in the MSCA. There is no existing state-funded budget provided for this activity. All Task A funding is MSCA funded by site.

## Costs

The expenditures for the quarter as well as the grant period through 31 March 1994 are combined with the other tasks and included in the Program Budget Table on page 6.



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# PROGRAM ELEMENT B: SITE MANAGEMENT SYSTEM

## Task Description

Under the earlier and current MSCA agreements the RWQCB implemented a computerized system to track RI (site remedial investigation), FS (feasibility studies / alternatives evaluation), and the implementation of remedial action activities for use of the RWQCB, Cal/EPA-DTSC and EPA management personnel for use in site enforcement and task tracking.

Additionally, as part of the community involvement program the SMS has been distributed to 15 municipal agencies, 9 libraries, 7 state and federal agency representatives, 2 environmental groups, and 1 manufacturers group, as well as sold (for reproduction costs) to those desiring it (primarily consultants).

## Products

The Board has changed the SMS according to the revised workplan. The 1992-93 workplan supports a significantly reduced SMS effort, at least for the "paper" portion. Regional Board implemented this "new" SMS in early 1993 utilizing a computer Bulletin Board format with a computer purchased in December 1992 utilizing MSCA funds. The BBS portion went on-line March 18, 1993. The yearly updated paper edition was updated May 1994 with an as-of date of early 1994. Continuing updates until the next annual paper update will be maintained for public and staff access on the BBS.

## State Budgeted Activities

There is no existing State-funded budget or activities for the Site Management System.

## Cost

Expenditures for Task B are included in the Program Costs Table on page 6.



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# PROGRAM ELEMENT D: COMMUNITY INVOLVEMENT

## Task Description and Objectives

The main objectives of community involvement activities performed under the MSCA are:

*Provide the general public with information on ground water systems, water supply sources, water quality, hazardous waste regulatory processes, and scope, progress and findings of remedial response activities.*

*Provide sufficient background information about technical and environmental issues to help the public understand and assess remedial actions.*

*Provide information, especially technical findings, in a form understandable to the general public.*

*Provide elected officials and the media with timely detailed information at key points throughout program activities.*

*Use the media as a major means of disseminating information to the general public.*

*Establish a two-way information exchange with environmental, public interest, and other concerned groups throughout the remedial response program.*

*Provide the means for all interested individuals to express concerns and make inquiries throughout project activities. (the opportunity for two-way communication is particularly important because of the length and complexity of the project).*

*Use the Groundwater Task Force, for overall coordination and review of community involvement efforts.*

*Create an interagency community involvement team to further coordinate the flow of information from agencies to the public.*

*Monitor public concerns and information needs*

*Modify the community involvement plan(s) to respond to changes in community attitudes and needs.*

Community involvement activities conducted under the MSCA function independently, but coordinated with, EPA's area wide community involvement strategy as well as DHS's site community involvement programs. Specifically, the RWQCB will be responsible for providing information and directing community involvement activities for RWQCB-lead sites.

Community Involvement activities were significantly reduced in this quarter as the IGA staff on-loan from EPA returned to EPA in October 1993 and all Community Involvement work will now be handled by Board staff. Losing the full-time staff is somewhat mitigated by the reduced workload with only several sites awaiting completion of RAP/RODs as well as significant planning to assure a satisfactory transition.

## Products

Per earlier explanation, all Community Involvement activities are now combined into the project managers' tasks of site oversight.

## Future Activities

Future activities are currently scheduled to meet the MSCA Special Conditions, especially for the sites awaiting final RAP/RODs.

## Costs

All costs for Community Involvement are now included in the other tasks as part of the every day work. All Community Involvement work will now be performed by state employees. See the Table on page III-6 for overall grant budget status that includes Community Involvement costs by site.



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## PROGRAM ELEMENT E: TIER I ACTIVITIES

Tier I activities are those activities that occur at specific sites in the South Bay.

| | | | |
|---|---|---|---|
| TASK E1.* | IDENTIFICATION OF NEW SITES | TASK E2. | RWQCB OVERSIGHT OF NPL PRP ACTIVITIES |
| TASK E1a.* | SCREENING OF NEW SITES IN ORDER TO CONDUCT Pas ON MOST SENSITIVE SITES | | |
| TASK E1b.* | OVERSIGHT OF PRP SI | | |

*Note: These tasks were not requested for funding in this Phase; they may be considered at a later time if conditions change.



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# TASK E2. RWQCB OVERSIGHT OF NPL PRP ACTIVITIES

Regional Board activities in this task cover the RI/FS oversight RD/RA and/or regulation underway at the 30 South Bay MSCA Superfund sites (31 companies/agencies either final and proposed including Liquid Gold and United Heckathorn in Richmond) for which the Board as a regulatory agency has either the current lead (21) or the supporting agency role (9). The current Agency-Lead and NPL Status as of this report are covered below.

**EPA Lead Superfund Sites:**

*1. Fairchild Semiconductor Corp., 464 Ellis St., Mountain View
*2. Intel Corp., 365 E. Middlefield Rd., Mountain View
3. Jasco Chemical Company, 1710 Villa St., Mountain View
4. Lorentz Barrel and Drum, 1515 S. 10th St., San Jose
5. Moffett Naval Air Station, Sunnyvale *(no longer part of South Bay MSCA)*
*6. Raytheon Company, 350 Ellis St., Mountain View
7. United Heckathorn, Richmond
8. Westinghouse Electric Corporation, 401 E. Hendy Ave., Sunnyvale

**RWQCB Lead Superfund Sites:**

*1. Advanced Micro Devices, 901 Thompson Pl, Bldg.901, Sunnyvale
2. Advanced Micro Devices, Bldg. 915., 915 Deguigne Dr., Sunnyvale
*3. AMD-Arques, (formerly Monolithic Memories, Inc.), 1165 East Arques Ave., Sunnyvale
4. Applied Materials, 3050 Bowers Avenue, Santa Clara
5. CTS Printex, 1905-1931 Plymouth St., Mountain View
6. Fairchild Camera and Instrument Corp., Bernal Road, San Jose
7. Hewlett-Packard, 640 Page Mill Rd., Palo Alto
8. Hewlett-Packard, 1501 Page Mill Rd., Palo Alto
   Hexcel, Livermore
   *(no longer part of South Bay MSCA)*
9. Intel Facility III, 2880 Northwestern Parkway, Santa Clara
10. Intel Magnetics/MicroStorage, 3000 Oakmead Village Dr., Santa Clara
11. International Business Machines, Cottle Road, San Jose
*12. Intersil, Inc., and Siemens Components, Inc., Cupertino
*13. National Semiconductor, 2900 Semiconductor Dr., Santa Clara
14. Rhône-Poulenc/Sandoz, 1990 Bay Road, East Palo Alto
*15. Signetics, 811 E. Arques, Sunnyvale
16. Solvent Services, 1022 Berreyessa Road, San Jose
*17. Spectra-Physics, Inc., 1250 West Middlefield Road, Mountain View
18. Synertek #1, Santa Clara
*19. Teledyne Semiconductor, 1300 Terra Bella Ave., Mountain View
*20. TRW Inc., 825 Stewart Pl., Sunnyvale
21. Van Waters & Rogers, Inc., 2256 Junction Ave., San Jose

* above sites will be treated as part of a combined site, at least for off-site work.

**Cal/EPA-DTSC Lead Superfund Sites:**

1. Liquid Gold, Richmond

**EPA NPL Modifications (RCRA "drop" sites):**

EPA's proposed rule-making in June 1988, (NPL Update #7) recommended that 6 NPL sites be deleted from the NPL since they are RCRA sites. Two other RCRA sites were proposed to be retained on the NPL. RWQCB officially commented to EPA-HQ on this proposal to delete high-priority RCRA sites by questioning the timeliness of the RCRA regulation update, future MSCA funding for these CERCLA/RCRA sites, and the lack of Technical Assistance Grants to citizen groups for RCRA (only) sites. EPA-IX has stated that the RCRA sites (proposed deleted and those remaining) will be treated as NPL sites to assure attention to cleanup appropriate to their NCP HRS scoring.

On October 4, 1989, EPA announced its final rule on the dropping of some of the NPL sites that are also RCRA sites. Under this rule, the following sites have been dropped from the NPL:

Hewlett-Packard, 1501 Page Mill Road
IBM, San Jose
Rhône Poulenc/Sandoz, East Palo Alto
Signetics, Sunnyvale
Van Waters and Rogers, San Jose

EPA and the Board, per policy, continue to treat the RCRA "drop" sites the same as NPL sites in terms of requirements, tasks, and cleanup,



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although this policy is under consideration for changes as this report is being written.

**Products during Reporting Period:**

Regional Board actions / Orders affecting the South Bay MSCA:

*January:* Nat Semi NPDES reissued (RO reject) MSCA Status Report to Board
*February:* Rhone- Poulenc init hearing re: ESD
*March:* Rhone-Poulenc adopt ESD; BBS report; IBM & Fairchild's 5-year status reports

**South Bay MSCA Superfund Site Cleanup Decisions (Remedial Investigations/Feasibility Studies/Remedial Action Plan):** All the South Bay Superfund sites have performed significant amounts of work to meet Superfund final cleanup decision requirements. The tasks remaining are necessary to meet State and Federal Superfund (almost all of which the State requires as well) requirements to determine the best alternative cleanup plan considering protection of public health and the environment as well as the maintenance (i.e. high quality groundwater) and protection of the resource (i.e. water conservation and reclamation).

Board staff conducted the following tasks as detailed in the EPA OSWER Memorandum dated October 1,. 1986, entitled, "CERCLA Funding of Oversight of Potentially Responsible Parties by States at National Priority List Sites. "

**Review Tasks (all sites):**
--Reviewed and commented on scope of work and work plans (all work plans requested and approved as of August 1990; updating due to operable units still may be necessary)
--Reviewed and commented on updates to Safety Plans
--Reviewed and Commented on drafts of portions of RI reports (all)
--Reviewed/discussed FS objectives
--Completed PRP reports (all)
--Organized and participated in technical meetings on the RI/FS with PRPs, PRP contractors, and/or EPA. (all)
--Provided Technical Support to the Community Relations Task for:
    Briefing of local and state officials
    Prepared fact sheets and press releases

**Field Related Tasks:**
--On-site presence/inspection as necessary (all)

In addition, at RWQCB lead sites the following tasks were in progress by RWQCB staff or contracted by the RWQCB:

--Data Validation (all by IAG with DHS)
--Public Health Baseline Evaluation
    (all work other than by PRP is by EPA or by contract award to ICF/Clement for both BPHE, BPHE review, and RI/FS review)
--Maintenance of the Administrative Record
    (primary use of PRPs for initial preparation)
--Continue Implementation of Cost Recovery
    (all)

For those sites where the RWQCB is the Support Agency, staff provided support in the tasks described above to the extent necessary but not to exceed the staffing levels previously approved (exceptions are noted in the Board's letter and memorandums of February 9, and May 3, 1993, respectively, requesting budget redirections and reductions for final FFY 93 award). Sites primarily affected: MEW, Lorentz, United Heckathorn, Westinghouse, JASCO, Liquid Gold.

For those sites under Regional Board lead, the IBM, Fairchild San Jose, Applied Materials, Intel SCIII, Intersil/Siemens, Solvent Services, AMD 901/902, AMD 915, AMD Arques, CTS Printex, National Semiconductor OU#1, Microstorage/Intel Magnetics, Signetics, Rhône-Poulenc/Sandoz (Uplands OU), TRW/FEI Microwave, Teledyne, Spectra-Physics, Synertek #1, Van Waters & Rogers, and Hexcel (now delisted), sites have completed the RI/FS and RAP and a ROD have been signed in this MSCA grant phase (See Table, Page III-5).

**Costs and Budgets:**. Even with the addition of the latest grant awards and the budget redirection among sites, some **site specific** over- and under-expenditures are occurring. While no new grant funds will be required, proposed redirection among sites in the July 30, 1993, award have been made, and it now appears that further redirection will be necessary late CY 1994.



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***The following is a description of the MSCA funded staff work and the current status at each of the MSCA Superfund sites.***

***REGIONAL BOARD LEAD SUPERFUND SITES:***

## ADVANCED MICRO DEVICES 901-902,SIGNETICS, TRW (FEI) MICROWAVE (THE COMPANIES)

The Final Remedial Action Plan (RAP) for the combined site(s) was adopted by the Board in June 1991.

AMD OPERABLE UNIT

The groundwater monitor report for the AMD operable unit was submitted in April 1994. The eight-well extraction system pumped an estimated 3.7 million gallons during this quarter. As expected, the majority of this water was extracted from the B1 and B2 water-bearing zones.

A summary of contaminant removal and extraction system operation for this quarter was included in the report. Based on average contaminant concentrations, the system removed about 5.2 pounds of VOCs during the quarter for a total of 501 pounds removed since the project began in 1984.

SIGNETICS OPERABLE UNIT

The progress and monitoring report for this quarter at the Signetics operable unit was submitted in April 1994. The extraction system removed more than 13 million gallons of water during this quarter. The average extraction rate was 98 gallons per minute. The majority of the water extracted is attributable to the B-zone extraction wells and the 440 Wolfe building sump. However, the majority of contaminant removal is attributable to the B-zone extraction wells since contaminant concentration is lower in the water captured by the building sump.

The treatment system was in compliance with NPDES requirements. Groundwater pumping resulted in an estimated removal of 619 pounds of TCE during this quarter. The groundwater extraction systems have removed more than 18,600 pounds of TCE since 1987. The soil vapor extraction system removed 4.8 pounds of VOCs during this quarter. The vapor extraction system has removed a cumulative 719 pounds of VOCs since its inception in 1988.

TRW OPERABLE UNIT

The progress and monitoring report for this quarter at the TRW operable unit was submitted in April 1994. The treatment system operated throughout the quarter with minimal down-time.

No significant changes in contaminant concentration or distribution were reported for the quarter. The average extraction rate for the seven extraction points was 22 gallons per minute during the quarter for a total of 2.8 million gallons. The total VOC removal for this quarter is estimated to be over 83 pounds of VOCs.

OFFSITE OPERABLE UNIT

The progress and monitoring report for this quarter for the Offsite operable unit was submitted in April 1994. The extraction system removed approximately 19 million gallons of water during the quarter. The estimated removal of VOCs for this quarter is 123 pounds. The cumulative removal of TCE is estimated at over 4917 pounds since 1986.

REGULATORY EVENTS THIS QUARTER

The groundwater monitoring schedule was modified for the Signetics operable unit. Metals testing was deleted from the program and selected wells were changed from semi-annual to annual sampling.

PROJECTED EVENTS FOR NEXT QUARTER

Quarterly monitoring of the remediation activities at the site will continue through the next reporting period.



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**ADVANCED MICRO DEVICES, BUILDING 915, 915 DEGUIGNE DRIVE, SUNNYVALE, SANTA CLARA COUNTY**

The Final Remedial Action Plan (RAP) for the site was adopted by the Board in June 1991.

ACTIVITIES THIS QUARTER

The first quarter monitoring report was submitted in April 1994. As in previous quarters, almost half of the A-zone wells were dry at the time quarterly samples were collected. As a result, groundwater extracted at the site is produced primarily by the B-aquifer. Approximately 7.3 million gallons of groundwater were extracted during this quarter.

The estimate of total VOCs removed since 1984 by groundwater extraction is 4097 pounds with 32 pounds removed during this quarter.

The contaminant plume had been detected in the two downgradient monitoring wells located off-site to the north (MW-44, MW-45). Extraction well EW-9 appears to be capturing the plume and controlling further migration from the site.

REGULATORY EVENTS THIS QUARTER

AMD submitted an application for reuse of extracted groundwater for irrigation purposes. The application was approved and a letter was sent stating that reuse could proceed and that the NPDES permit would be amended at a later date.

PROJECTED EVENTS FOR NEXT QUARTER

Quarterly reports documenting progress will be submitted throughout 1994. The impact of upgradient sources on the AMD 915 system will continue to be monitored. Documentation of the effectiveness of the additional extraction well will be included in each quarterly report.

**APPLIED MATERIALS, INC. BUILDING 1, 3050 BOWERS AVENUE, SANTA CLARA**

SITE ACTIVITY/ACCOMPLISHMENTS

1. Monthly reports (NPDES) are being submitted as required. There were no reported discharge violations.

2. Applied Materials submitted the periodic self-monitoring report for the period October 1993-January 1994, combined with the annual report for 1993 (January 1993-January 1994).

   In this report the consultant, on behalf of Applied Materials, proposed a reduced sampling plan, modified cleanup standards, and application of the alternative points of compliance concept for the subject site.

3. Operation of the air stripper was temporarily discontinued so that major modifications could be made. Modifications to the air stripper have been completed and treatment of extracted groundwater has resumed. An updated air stripper O & M Plan has not yet been submitted, but the Discharger has contacted staff and discussed this submittal.

   Staff questioned the cause of a very high increase in the influent concentration experienced recently. After discussion between the Discharger and consultant, it was reported that the increase was probably due to an influx of water from extraction well AM1-10: this well cycles on-and-off, and evidently it had been on just before the technician sampled the influent. (Water from AM1-10 is commingled with water from AM1-1 and AM1-5E for treatment, and the VOC concentration in water from AM1-10 is much higher than that of the other two wells.)

4. The consultant has submitted a letter responding to staff comments on the proposals in the most recent periodic report. (A staff response apparently is not required at this time.)

AGENCY (BOARD) ACTIVITY/EVENTS

1. Board staff reviewed the monthly reports and the self-monitoring report and commented as appropriate.

2. Staff has had several requests from the EPA, the general public, and "third-party consultants" for information about the subject site and have responded.

During the next quarter (April-June 1994) staff expects the Discharger to submit and updated air



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stripper O & M Plan, and required monthly/periodic reports.

**CTS PRINTEX, 1905, 1911, 1921, AND 1931 PLYMOUTH STREET, MOUNTAIN VIEW**

CURRENT STATUS:

On January 15, 1994, CTS submitted the fourth quarter/annual monitoring report. This report included an evaluation of the progress of cleanup, and a proposal to reduce groundwater extraction. Regional Board staff reviewed their proposal and on February 25, 1994, met with CTS and their consultant to discuss it. The meeting was followed with a letter from staff dated March 25, 1994 indicating that the proposal to curtail and modify pumping was incomplete and required more specific information and technical rationale.

In general, the curtailment proposal consists of three different components: 1) cessation of pumping in extraction wells ES3W, ES4W, and ED3W, 2) modifying the pump rates in extraction wells ES1W, ED1W, ES2W, and ED2W, and 3) reduction elimination of sampling at various monitoring wells. The proposal is based on attainment of cleanup levels in monitoring wells north of Highway 101 and to minimize spreading or dispersion of the remaining contaminants. It is also based on the possibility of an upgradient contaminant source influencing the 'western' plume area.

Regarding the potential upgradient source, CTS provided aerial photographs of the corner of Old Middlefield Road and Sierra Vista (address 1931 Old Middlefield Road) which is known to have TPH and VOCs in groundwater. The series of photographs (1974 to 1988) appear to indicate chemical activity or use not reported in the letter received from the property owner in September 1993. CTS believes that this area may be contributing to the CTS western plume and requested that Regional Board follow up on previously requested groundwater sampling at that location. Staff agreed to write a letter requesting additional chemical use history and additional sampling. Since that time, Regional Board staff have coordinated with Santa Clara Valley Water District, currently overseeing TPH contamination investigation at the site. On April 14, 1994, Regional Board staff issued a letter to the District requesting that VOC investigation be included in future investigation activities under their oversight.

Groundwater extraction systems continued operation and the first quarter report indicated there was no significant change in the water table from the previous quarter. Chemical concentrations also showed no appreciable changes from the previous quarter.

PROJECTED ACTIVITIES FOR SIX MONTHS:

No new tasks are required; groundwater extraction and monitoring will continue. CTS plans to resubmit proposal to curtail pumping; no deadline is required by Board staff. Staff will stay apprised of upgradient source investigation with oversight by SCVWD.

**FAIRCHILD, SAN JOSE**

The final Remedial Action Plan (RAP) was adopted by the Regional Board in January 1989. The RAP set cleanup standards for on-site groundwaters at MCLs and for off-site groundwaters at less than one fourth the MCLs. In order to help meet these cleanup standards, soil cleanup goals were set for the on-site area, which is surrounded by a slurry wall. The Regional Board amended the RAP in May 1990 in response to soil-cleanup issues raised during an appeal. This modification allowed Fairchild to demonstrate that its prior soil cleanup was sufficient to protect groundwater.

Fairchild proposed a one-year shut-down of the off-site extraction wells in September 1991. Board staff approved the proposal in December 1991. The proposal is based on computer modeling which shows that groundwater pumping is ineffective in speeding up remediation of the aquifers at this site; the model predicts that off-site cleanup will take 15 years, whether or not off-site pumping occurs.

During the last quarter, Fairchild operated the on-site extraction system continuously at a rate of 90 to 100 gpm, discharging the treated groundwater to the storm drain. This pumping strategy represents a change in the cyclic pumping from prior quarters. The change was made to maintain groundwater elevations inside the slurry wall in the face of rising off-site groundwater elevations.



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The off-site extraction wells were shut down as part of the approved demonstration project. The no-pumping program will continue for the next five years, provided the off-site plume remains stable and generally diminishing. During this quarter, VOC concentrations did not increase or migrate, consistent with modelling results and prior sampling results.

On March 16, 1994, the Regional Board accepted Fairchild's 5-year review, which found that the selected remedy was working and proposed continuation of the current remedial program. On March 25, 1994, Fairchild proposed off-site reinjection of extracted, treated groundwater, in order to maximize reuse consistent with Board policy. A specific reinjection proposal will follow, once site redevelopment plans are finalized. Tentative redevelopment plans call for demolition of the existing building and construction of a retail shopping center.

During the next six months, Fairchild will continue on-site groundwater extraction on a continuous basis (85 to 120 gpm) in order to keep the A-aquifer unsaturated. Board staff will monitor redevelopment plans to assure that on-site remediation is not adversely affected.

**HEWLETT-PACKARD, 640 PAGE MILL ROAD, PALO ALTO**

CURRENT STATUS:

An RI/FS was submitted in June 1993 for on-site and off-site in the California, Olive and Emerson Streets (COE) area. Board staff found the RI/FS adequate with minor modifications needed. The proposed plan has been submitted for the 640 site and is currently in review by Board staff. This proposed plan will inform the community of the proposed method of cleanup and the health risks that it will pose.

Construction of the new office building at the 640 Page Mill Road site is complete. The vapor and groundwater extraction wells that will operate under the building have been completed and are operating. The groundwater extraction system for the COE area is now complete and has been operating since April 15.

FUTURE ACTIVITIES:

A revised version of the RI/FS will be submitted this May. The COE area, HP 395 and Varian 601 California Avenue will all be included in the final Site Cleanup Requirements to be written in draft form in May of this year. The SCRs will be submitted for public review on July 20 before the Board for a 30 day review. The final SCRs will be adopted on September 21 of this year.

**HEWLETT-PACKARD, 1501 PAGE MILL ROAD, PALO ALTO**

CURRENT STATUS:

The final draft of the RI/FS has been accepted by Board staff and is now out for public comment. Tentative Site Cleanup Requirements are currently being drafted for the June 15 board meeting where they will be available for a 30 day public comment period. The final Baseline Public Health Evaluation (BPHE) has been approved. The fact sheet and proposed plan, which informed the community of the final cleanup plan, is in draft form and will go out to the public by June 17.

The site currently has six interim remedial measure extraction wells in operation. The proposed plan requires 21 additional extraction wells.

FUTURE ACTIVITIES:

The first Board meeting which opens up public comment on the tentative Site Cleanup Requirements will be on June 15. The second Board meeting scheduled for August 17 will adopt the final Site Cleanup Requirements. These final SCRs will include all public comments. Minor additional off-site work for installing monitoring and extraction wells will be done as part of the final SCR.

**HEXCEL CORPORATION, LIVERMORE, ALAMEDA COUNTY**

*No longer part of MSCA*

**INTEL, SANTA CLARA III, Santa Clara**

The Final RAP for the site was adopted by the Board in July 1990. Intel submitted a report titled "Cyclic Pumping Demonstration Project, Evaluation and Evaluation Recommendations for Further Actions" in late 1991. Cyclic pumping (also known as pulsed pumping) is believed to be a method for improving groundwater remediation efficiencies.



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Based on this October 1991 report, Intel has tried both 60-day on/60-day off and 120-day on/120-day off pumping cycles. Intel has submitted effectiveness reports on these cycles that conclude that these pumping cycles are no more efficient than continuous pumping. In response to requests by Board staff, Intel proposed a new demonstration project involving various cyclic pumping schemes that began on January 15, 1993. These additional pumping trials did not show any significant improvement over the previous trials or continuous pumping. After meeting with Intel to discuss the latest cyclic pumping results, Board staff has approved Intel's request for a twelve month trial period with all pumps off. During this trial, monitoring wells will be sampled quarterly to determine if there is any plume migration or concentration changes. Intel has submitted a petition requesting that the Board change the point of compliance with the site's groundwater cleanup standards from all areas of the site, to the property boundary of the site. Intel claims that groundwater cleanup standards are not likely to be met onsite using available technology and that groundwater extraction is no longer providing significant reduction of groundwater contamination. Intel believes that remaining contamination will not migrate from the site and that the site can be managed such that there is minimal risk from the remaining contaminants in the groundwater. Board Staff is currently considering the petition.

Board staff will continue to monitor the site and review quarterly reports submitted by Intel.

## INTERNATIONAL BUSINESS MACHINES, SAN JOSE

The final Remedial Action Plan (RAP) was adopted by the Regional Board in October 1988. It set cleanup standards similar to those for Fairchild (San Jose) and included soil vapor extraction (on-site) and continued groundwater extraction (on and off-site). IBM's cleanup program is strongly affected by groundwater elevations, which vary dramatically depending on rainfall as well as recharge by the Santa Clara Valley Water District.

During the last quarter, IBM continued implementation of the RAP. IBM extracted and treated about 93 million gallons of groundwater for the quarter, reusing about 76 million gallons (or 82%) of this total volume. All on-site extracted groundwater was reused, by reinjection, landscape irrigation, or as feed water for industrial use. Most off-site groundwater was discharged to Canoas Creek. The soil vapor extraction system continued to be effective, removing about 700 pounds of VOCs and hydrocarbons from on-site soils during the quarter.

On March 16, 1994, the Regional Board accepted IBM's 5-year review, which found that the selected remedy was working and proposed continuation of the current remedial program. On March 24, 1994, Board staff approved curtailment of SVE activities at Building 004 after IBM demonstrated compliance with soil cleanup goals. SVE activities continue at three other locations on site.

During the next six months, IBM will continue its cleanup program. Efforts to reuse off-site extracted groundwater will be postponed, pending a determination of the optimal pumping rate.

## MICRO STORAGE/INTEL MAGNETICS, SANTA CLARA

The Final Remedial Action Plan (RAP) for the site was adopted by the Board in July 1991.

Draft deed restrictions to prohibit the use of the shallow groundwater at the site have been submitted by the two property owners. Kim Camp III's deed restriction has been signed by the Executive Officer and recorded with Santa Clara County.

Intel (on behalf of the property owner, 3000 Oakmead Village Drive Ltd.) submitted its most recent revised deed restriction in the second quarter 1993. Board legal staff is currently trying to resolve a remaining point of disagreement with Intel.

The Regional Board has approved staff's recommendation that Boehringer Ingelheim (BI) and International Diagnostic Technologies (IDT), be added to the RAP. This recommendation is based on a review of the site's groundwater quality, groundwater flow, and other hydrogeologic data, which indicated that a release of solvents to groundwater had taken place during International Diagnostic Technologies' (IDT's) tenancy at the site. BI was the parent company of IDT during the time IDT was a



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tenant at the site. The Board adopted an amendment to the final RAP in November 1993 naming IDT and BI as additional primary responsible parties. BI has appealed the amendment to the State Board.

## NATIONAL SEMICONDUCTOR CORPORATION & ADVANCED MICRO DEVICES (1165 ARQUES, FORMERLY MONOLITHIC MEMORIES), SUNNYVALE / SANTA CLARA

At the NSC and AMD sites, work completed and work projected is pursuant to the final Remedial Action Plan (RAP) adopted by the Board at its September 1991 meeting. The RAP contains compliance tasks and time schedules for the remediation of soil and groundwater in Operable Unit 1 (OU1), which consists of the NSC and AMD facilities and the downgradient commingled plume area.

An order revising the RAP for the NSC site was adopted during the February Board meeting. The revision provided for the expansion of OU1 and of the area which NSC is required to investigate and remediate. This expansion is needed because the release at the former United Technologies Corporation site (for which NSC has taken cleanup responsibilities) appears to be impacting areas to the north, outside the previous OU1 boundary.

Once investigations for adjacent sites and the expanded area of OU1 are complete, staff will be able to better determine whether further modifications are necessary to the OU1 boundary, and to the parties named responsible for adjacent site cleanup.

### NATIONAL SEMICONDUCTOR

Additional soil samples were obtained in the 1st quarter 1994 in order to further characterize contamination at source areas at the NSC site. As of March 1994, soil vapor extraction wells are currently being installed in 8 of the 12 contaminant source areas, and pilot tests were conducted in nine of the areas. Extraction of VOCs at one source area has continued at an average of 5.9 pounds per day. The total mass of VOCs removed from this source area since it started up in the 3rd quarter of 1993 is approximately 508 pounds.

The groundwater treatment system has continued to operate in compliance with the NPDES permit. During the 1st quarter of 1994, the groundwater treatment system extracted approximately 358 gallons per minute, and removed a total of 212 pounds of VOCs.

In March 1994, NSC submitted a workplan for characterizing groundwater VOC contamination and site conditions within the area specified in the revised Site Cleanup Requirements adopted in February. Staff met with NSC to discuss the workplan, and will provide written comment during the 2nd quarter 1994.

### ADVANCED MICRO DEVICES - ARQUES SITE

The soil vapor extraction system continued operation, removing a total of 25.3 pounds of VOCs during the first quarter of 1994. The total amount of VOC vapor extracted from the soil to date is 441 pounds. AMD is in the process of proposing a soil sampling plan in order to evaluate the effectiveness of soil remediation for both VOC and PNA contamination. Alternative cleanup goals for PNAs are also being evaluated.

Groundwater monitoring reports and NPDES monitoring reports for the first quarter of 1994 have been submitted and reviewed. Groundwater continues to be extracted from a network of on-site wells and treated. During the first quarter 1994, the system extracted approximately 37 gallons per minute and removed a total of 14.8 pounds of VOCs. No violations of NPDES permit requirements were noted.

## RHONE-POULENC/SANDOZ, EAST PALO ALTO

### ACTIVITIES DURING JANUARY-MARCH

The Regional Board Proposed a modification to the final Remedial Action Plan/Record of Decision for the Upland Operable Unit (Upland OU). The post-ROD change consisted of a modification to the boundaries of the Upland OU to include the Torres and PG&E properties. These properties were previously included as part of the Wetland Operable Unit (Wetland OU). Board staff consulted with EPA as to how the Board as lead agency would make this post-ROD change. It was agreed that a boundary modification would constitute a significant modification to the ROD and the most appropriate method to address this modification would be to issue an Explanation of Significant Difference (ESD). It was also agreed that the Board could use a Site Cleanup Requirements



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Order (Order) as the equivalent of the ESD as long as the protocols for agency and public notification were followed.

Board staff consulted closely with EPA, NOAA, USFWS, BCDC, and COE before circulating a tentative Order. An initial public hearing was held on February 16, 1994 to open a 15 day public comment period. A newspaper ad was placed in a local newspaper which described the ESD. No significant comments were received. Board staff, EPA and representative from Rhone-Poulenc met with the COE to discuss wetland mitigation for the approximate 3 acres of non-tidal wetland which will be destroyed as part of the remedy.

ACTIVITIES ANTICIPATED DURING APRIL-JUNE

Implementation of the remedy into the modified boundaries of the Upland OU shall begin in May. Approximately 11,000 yards of arsenic polluted soil shall be treated with silicates.

The deed restriction for the 1990 Bay Road property was finalized and is expected to be recorded in May.

Development of the mitigation plan for the loss of wetlands shall be further developed. Agency meetings will take place to solicit input.

**SIEMENS COMPONENTS INC., 19000 HOMESTEAD ROAD, CUPERTINO; INTERSIL INC., 10900 N. TANTAU ROAD, CUPERTINO**

The final Remedial Action Plan for this site was adopted by the Regional Board in August 1990, and EPA issued a concurring ROD. The RAP called for additional groundwater extraction wells and soil vapor extraction wells. All work needed to implement the RAP has been completed. Intersil has 7 groundwater extraction wells; Intersil's SVE system has been removed. Siemens has 10 soil vapor wells and 18 groundwater wells; and offsite there are 3 extraction wells. The final off-site groundwater extraction system as proposed in the RAP has been completed.

In April 1992, Siemens/Intersil requested permission to close four deep-aquifer monitoring wells off-site, in order to avoid possible damage due to construction activities. Board staff approved the request on June 4, 1992, given that no VOCs were detected in these wells. Shortly afterward, the City of Santa Clara reported PCE concentrations slightly over drinking water standards in a down-gradient public well. Continued monitoring has confirmed the presence of PCE in the Santa Clara Well #24. The source is not believed to be Siemens/Intersil. The four deep-aquifer monitoring wells are still in existence, the Santa Clara Valley Water District has taken ownership and responsibility of these wells.

CURRENT STATUS:

During the last quarter, monitoring and remediation continued as required by the RAP. Both Intersil and Siemens are concerned about the remedial activities at the adjacent AMI site. They are concerned that AMI is not capturing their plume, and that the plumes will eventually commingle. They would like the Board to adopt site cleanup requirements for AMI.

AMI has installed their off-site groundwater extraction and treatment system. System startup was in January 1994.

FUTURE ACTIVITIES:

Monitoring and remediation will continue at Intersil & Siemens.

Board staff will prepare draft site cleanup requirements for AMI in 1994.

**SOLVENT SERVICE INC. (SSI), 1021 BERRYESSA ROAD, SAN JOSE, SANTA CLARA COUNTY**

The Final Remedial Action Plan (RAP) for the site was adopted by the Board in August 1990.

ACTIVITIES THIS QUARTER

Operation of the groundwater extraction and treatment systems continued throughout the quarter with no NPDES violations. The steam enhanced vapor extraction system (SIVE) has been restarted after being temporarily removed from operation to allow final installation of the cap on the site, as part of other construction activities on the site. The vapor extraction wells were drilled out and rehabilitated to increase the efficiency of the system.

REGULATORY EVENTS THIS QUARTER
None

PROJECTED EVENTS FOR NEXT QUARTER

Quarterly monitoring reports will be submitted within thirty days of the end of each calendar quarter.

A vapor extraction system has been installed on the western property boundary to address the free-phase petroleum plume originating from the Chevron Fuel Terminal across Berryessa Road.

UNRESOLVED ISSUES:

The status of remediation of dissolved phase hydrocarbons, and of solvents on the western property boundary must be resolved following the completion of removal of free product hydrocarbon from this area.

**SYNERTEK #1, SANTA CLARA**

The Final RAP for the site was adopted by the Board in March 1991. Operation of the B zone groundwater reinjection system commenced in December 1991. The reinjection system consisted of two extraction wells pumping a combined total of six gallons per minute (gpm) and one reinjection well reinjecting six gpm. However, the reinjection system continually failed as a result of calcium carbonate precipitation and system clogging. Due to these unresolvable problems, Honeywell, as owner of Synertek, submitted a request that the reinjection program and hydraulic control study be discontinued. Board staff reviewed and approved the request in the third quarter 1993.

Groundwater extraction and treatment continues as an integral part of the final remedial action at the site. The four A zone extraction wells continue to pump at a combined rate of about 12 gpm. Currently, approximately 26,000 gallons per day of groundwater is extracted and treated to remove volatile organic chemicals. Board staff will continue to monitor the site and review quarterly reports submitted by Honeywell.

**TELEDYNE SEMICONDUCTOR, 1300 TERRA BELLA AVE., MOUNTAIN VIEW; SPECTRA-PHYSICS INC., 1250 WEST MIDDLEFIELD ROAD, MOUNTAIN VIEW**

In February of 1991 the Board adopted a final Remedial Action Plan and EPA issued a record of decision. The RAP calls for groundwater extraction off-site and at the Teledyne facility. The RAP also requires additional soil treatment at the Spectra Physics facility.

Teledyne sold Teledyne Components (formerly Teledyne Semiconductors) located at 1300 Terra Bella to TELCOM Semiconductors, Inc., in 1993. Teledyne continues to own the property and the building which was previously occupied by Teledyne Components and is now leased to TELCOM.

Teledyne and Spectra-Physics submitted a petition in February 1993 requesting their final Site Cleanup Requirements be revised to alter their responsibility in four North Bayshore source areas. This issue was brought before the Board at the March and the May 1993 meetings. At the May meeting, the Board directed staff to amend the 1991 Joint Order to include dischargers in the North Bayshore area. Board staff will investigate the North Bayshore sites further, and will amend the 1991 Joint Order to include an NBAR and/or dischargers in the North Bayshore area, contingent upon the findings of the investigation.

CURRENT STATUS:

During the last quarter, on-site work at Teledyne included the continuation of groundwater monitoring, effluent monitoring, extraction and treatment. Spectra-Physics proposed a workplan to conduct additional soil investigation as a result of the two year evaluation. The workplan was conditionally approved by Board staff. SP also proposed a workplan for curtailment of the SVE systems north and south of building 3. Further action on this proposal is pending the results of the soil investigation. SVE system has been off for most of the quarter, because they are not pulling significant amounts of vapor. The report is due on May 2, 1994.

Off-site, Teledyne and Spectra-Physics continued to monitor wells and operate the extraction systems north and south of the Bayshore Freeway. TD just recently discovered that one of their extraction pumps in the North Bayshore Area (E16) has not been cycling for at least 3 months. The pump is back on now. They are investigating to see how capture was affected.

Additional off-site work includes investigation/remediation activities at Montwood, Santa Clara County Transportation Agency, and 1098 Alta Avenue. The Space Park Way site is the only site that requires initial investigation.



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1098 Alta submitted the report of their investigation to determine the impact of upgradient releases to their site. They concluded that 1098 Alta is a source of pollutants, and are working on a workplan for on-site remediation. They were also required by the Board to conduct off-site investigation downgradient of their property. Off-site investigation is pending the completion of the workplan.

Quarterly ground water monitoring continues at the Santa Clara County Transportation Agency, North Coach Division. They submitted a report on additional on-site soil and groundwater investigation in May of 1994.

The Board issued initial Site Cleanup Requirements in January 1993 to the previous owners of the former Montwood site. On-site and off-site investigation is completed for the most parts. Startup of the groundwater remediation system is behind schedule because of encroachment permit requirements imposed by the City of Mountain View.

Board staff requested 5 of the owners/occupants of the Space Park Way (SPW) facilities to conduct a preliminary groundwater investigation at their sites. They are: 1625 N. Shoreline, 1675 N. Shoreline, 1280 Space Park Way, 1599 & 1601 N. Shoreline. Teledyne volunteered to conduct the investigation on all sites except the 1280 SPW site. All parties agreed to TD/SP doing the preliminary investigation. 1280 SPW submitted the results of a phase I study performed at the site for a real estate transaction. TD/SP and SPW owners/tenants are negotiating the terms of the various access agreements at this time.

Quarterly groundwater monitoring continues at Whisman School District.

FUTURE ACTIVITIES

Regional Board staff will continue investigating the North Bayshore area to determine the extent of other sites contribution to groundwater contamination in the area, and will work towards bringing these dischargers under an order (Joint or Individual). The landfill will be going through closure activities in the near future; this may have some impact on off-site activities. The parcel just south of the landfill will be developed in the near future. The development activities will impact some of the extraction wells in the North Bayshore Area. Board staff will be meeting with TD/SP & City of Mountain View to discuss potential impacts on the North Bayshore treatment system.

**VAN WATERS & ROGERS, INC, 2256 JUNCTION AVENUE, SAN JOSE**

CURRENT STATUS:

In March 3, 1994 Regional Board staff issued a Notice Of Violation letter to VW&R for NPDES violation of the groundwater treatment system and SCR violations inadequate or incomplete reports on implementation of the expanded groundwater extraction and treatment system, evaluation of remedial measures, implementation of ISVE, and status of underground storage tank removal.

Regarding the NPDES violation, in November and December 1993, the B-1 zone wells were non-operational due to mechanical problems in October with the treatment system for B zone groundwater. Apparently, a screen (and backup screen) containing the *Ambersorb* failed, and material was discharged to the storm sewer. VW&R estimates that .5 pound of VOCs were discharged with the *Ambersorb* material. On April 15, 1994, VW&R submitted a reply to the NOV which requires review by Board staff.

On March 24, 1994, Regional Board staff were invited to attend a meeting with other regulatory agencies lead by the San Jose Fire Department. This meeting involved VW&R's regulatory compliance and status with the various agencies. This meeting was in conjunction with a scheduled inspection by the SJFD on April 6 - 8, 1994.

The first quarter 1994 groundwater status report was received May 2, 1994. Water table elevations in the A-aquifer increased from the previous quarter from .2 foot to 1.9 feet in A aquifer monitoring wells, and from .24 to .61 feet in B aquifer monitoring wells; VW&R attributes this increase to increased precipitation. VOC concentrations remained similar to the previous quarter in most wells, with some fluctuations in some A and B wells, though not as dramatic as the previous quarter. The dramatic fluctuations in the fourth quarter 1993 were noted by Board staff and VW&R is required to provide technical discussion as to why dramatic changes are sometimes noted.



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PROJECTED ACTIVITIES FOR NEXT SIX MONTHS:

Regional Board staff will review VW&R's response to the NOV. Based on that review, additional correspondence and/or work may be required of VW&R.

No new tasks are required; groundwater monitoring continues.

## *US EPA and CAL/EPA – DTSC LEAD SITES:*
## *(RWQCB is the support agency)*

### JASCO, MOUNTAIN VIEW

EPA issued the ROD for this site in September 1992; the cleanup plan calls for expanded groundwater extraction, treatment prior to POTW discharger, deed restriction prohibiting wells in shallow groundwater, and ex-situ bioremediation of soils. EPA issued an administrative order for Remedial Design/Remedial Action in December 1992. EPA has approved Jasco's request to pilot-test an alternative approach: air sparging and soil vapor extraction.

During the last quarter, cleanup activities continued at this site, including interim groundwater extraction with POTW discharge.

During the next six months, Jasco will implement pilot testing of air sparging and soil vapor extraction. EPA staff will continue reviewing Jasco design documents. EPA's response is likely to depend on the results of the pilot testing, due in mid-1994.

### LIQUID GOLD, 580 FWY NEAR HOFFMAN MARSH, RICHMOND, CONTRA COSTA COUNTY

CURRENT STATUS:

Remedial activities at the site are scheduled for July through September 1994.

The first quarter groundwater monitoring report was submitted on March 8, 1994. Groundwater table elevations decreased by less than 1 foot this quarter, except in wells 8, 11, and 13; well 8 increased by 1.5 feet, well 11 was dry, and well 13 decreased by 1.11 feet. Analytical data indicated metals and TPH at similar concentrations as previous quarters.

PROJECTED ACTIVITIES FOR NEXT SIX MONTHS:

Agency review and comment on specific (contractor's proposal) remedial design in May - June 1994. Field work will begin July 1994. Control of runoff from sediment removed from the channels to the upland area will be one of the major Regional Board concerns.

### LORENTZ BARREL AND DRUM, SAN JOSE

The Record of Decision (ROD) for the shallow groundwater at the site was signed by the EPA in September 1988.

ACTIVITIES THIS QUARTER

The discharger submitted NPDES compliance monitoring and shallow groundwater monitoring reports during January, 1994. The site was in compliance with NPDES requirements except for rainbow trout survival rates (0%). Fathead minnow were not used for testing during this quarter. The cause of the reduced rainbow trout survival is being investigated by an independent consultant.

REGULATORY EVENTS THIS QUARTER

None

PROJECTED EVENTS FOR NEXT QUARTER

Quarterly NPDES and groundwater monitoring reports will be submitted throughout the next year.

UNRESOLVED ISSUES

Removal of impacted soils and sumps on the LBD property still needs to be addressed as required in the ROD.



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## MIDDLEFIELD-ELLIS-WHISMAN SITES, MOUNTAIN VIEW

EPA adopted a cleanup plan for the MEW area in June 1989. In mid-1991, EPA and two of the companies - Intel and Raytheon - signed a consent decree covering implementation of final cleanup activities; it received court approval in April 1992. EPA issued a unilateral enforcement order to Fairchild and other MEW dischargers in November 1990. Fairchild challenged EPA's ROD revision (which changed cleanup goals to standards) and other aspects of the negotiation process. A federal court dismissed the challenge, and Fairchild's appeal was dismissed in early 1993. Various responsible parties at the site are submitting RD/RA reports in response to the unilateral order or the consent decree. The companies have proposed a regional remediation system (south and north of Highway 101); the system north of Highway 101 is closely linked to cleanup activities at Moffett Field Naval Air Station.

During the last quarter, interim remediation continued at several MEW on-site areas. The companies submitted the final design for the regional system (north of Highway 101) in March.

During the next six months, the companies will continue RD/RA tasks. EPA will review the final design for the regional system (both north and south of Highway 101). Design of a reuse project will wait until individual and regional system designs are completed; NASA Ames is a big potential user of treated groundwater.

## MOFFETT FIELD NAVAL AIR STATION, MOUNTAIN VIEW / SUNNYVALE (DOD FACILITY)

*Not part of South Bay MSCA.*

## UNITED HECKATHORN (AKA: LEVIN METALS), 402 WRIGHT AVENUE, RICHMOND, CONTRA COSTA COUNTY

CURRENT STATUS:

The Final Marine Remedial Investigation, prepared by Batelle for US EPA, was submitted in March 29, 1994. This report basically reflects the draft version submitted in 1993. The Feasibility Study is expected by the end of May 1994.

PROJECTED ACTIVITIES FOR SIX MONTHS:

Review and comment on the Feasibility Study; issues will focus primarily on remediation of contaminated sediments and applicable ARARs. Most of the upland areas were remediated as an interim remedial measure in 1991.

## WESTINGHOUSE, SUNNYVALE

The Record of Decision for this EPA lead site was signed on October 16, 1991. EPA reached agreement with Westinghouse to start remedial design in February 1992.

EPA and Westinghouse have failed to reach agreement for a Consent Decree for final remedial action. Instead, EPA issued an administrative order in September 1993 that compels Westinghouse to perform the full-scale cleanup plan as designed. The remedial design package was finalized and submitted to EPA during March 1994.

Shakedown of the pilot groundwater treatment and extraction system started December 30, 1992. Full operation of the pilot system started in the second quarter 1993 and continued during the first quarter 1994. During the first quarter, a total of 408,710 gallons of groundwater was extracted. Approximately 2 pounds of PCBs were removed during the first quarter, bringing the total removed since startup to approximately 12 pounds. Initial system discharge is to the City of Sunnyvale's sanitary sewer. Full scale groundwater extraction and treatment is scheduled for later in 1994.

FUTURE ACTIVITIES:

Preparation of the draft remedial action work plan, which started in the first quarter, will continue, as will preparation of the draft remedial action health and safety plan and draft construction quality assurance project plan.



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## DATA VALIDATION (INTERAGENCY AGREEMENT W/CSDHS)

The data validation agreement called for the California Department of Health Services (DHS) to conduct data validation on analytical data from selected groundwater samples for eighteen Superfund sites. To date, DHS has reviewed 36 data validation packages from MSCA sites. Most sites have undergone at least two rounds of data validation.

The data validation agreement expired in 1992. A new agreement will be negotiated if further data validation is needed.

## BASELINE PUBLIC HEALTH EVALUATION CONTRACT (W/ICF CLEMENT)

The contract is expired and is not expected to be renewed. RWQCB will use in-house toxicologist if necessary during the next year.

## TECHNICAL ASSISTANCE CONTRACT

The contract is expired but may be re-advertised depending upon needs to be determined at a later date.

## SUPERFUND LABORATORY CONTRACT

The Superfund lab contract expired June 30, 1993. Board staff, over the coming six months, will consider the need to implement a new contract.



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